

Atty. Dkt. No.	C-M#	Client Ref.
	029996-0306374	

Applicant: Pownall, et al.	
Appln. No.: 10/697,700	
Filing Date: October 29, 2003 <i>H. Harwood</i>	
Examiner: unknown	Art Unit: 1635 <i>1633</i>

Examiner: unknown	Art Unit: <del>1638</del> 1633
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Date Considered: 4/25/07

**PAT-1449 12/88**

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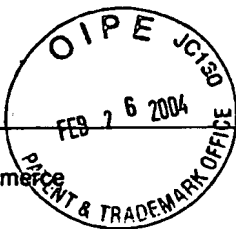
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Filing Date: October 29, 2003	
Examiner: unknown	Art Unit: 1636 <i>1633</i>

OTHER (Including in this order Author Title Periodical Name Date Pertinent Pages, etc.)	English	Translation
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Examiner	<i>M. H. Smith</i>	Date Considered:	<i>4/25/07</i>
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**\*EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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**INFORMATION DISCLOSURE STATEMENT  
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Date: February 13, 2004 Page 1 of 13

**U.S. PATENT DOCUMENTS**

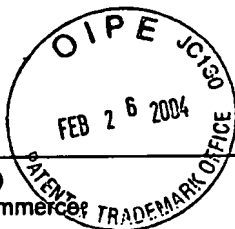
Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
<i>MM</i>	AR 2002/0123513 A1	09/2002	Krasner			
<i>MM</i>	BR 2003/0166592 A1	09/2003	Monia et al.			
<i>MM</i>	CR 6,297,359 B1	10/2001	Young et al.			
	DR					
	ER					
	FR					
	GR					
	HR					
	IR					
	JR					
	KR					
	LR					
	MR					
	NR					

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclosed	No
	OR							
	PR							
	QR							
	RR							
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	VR							
	WR							
	XR							

Examiner *M. March* Date Considered: **4/25/07**

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Date: February 13, 2004 Page 2 of 13

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Examiner's Initials*		Abstract		Readily Available	
		Enclosed	No	Enclosed	No
<b>MM</b>	YR	Bernard-Hélary et al.; Stable Transfection of cDNAs Targeting Specific Steps of Glycogen Metabolism Supports the Existence of Active Gluconeogenesis in Mouse Cultured Astrocytes; GLIA 37; 2002; p. 379-382			
	ZR	Somsak et al.; Glucose Analog Inhibitors of Glycogen Phosphorylases as Potential Antidiabetic Agents: Recent Developments; Current Pharmaceutical Design Vol. 9, No. 15; 2003; p. 1177-1189			
	AAR	Yu et al.; Simultaneous Inhibition of GSK3 $\alpha$ and GSK3 $\beta$ Using Hairpin siRNA Expression Vectors; Molecular Therapy Vol. 7, No. 2; 2003; p. 228-236			
	ABR	Legler; Glycoside Hydrolases: Mechanistic Information from Studies with Reversible and Irreversible Inhibitors; Advances in Carbohydrate Chemistry and Biochemistry Vol. 48; 1990; p. 319-384			
	ACR	Stambolic et al.; Lithium inhibits glycogen synthase kinase-3 activity and mimics Wingless signalling in intact cells; Current Biology Vol. 6, No. 12; 1996; p. 1664-1668			
	ADR	Robinson et al.; New Potent $\alpha$ -Glucohydrolase Inhibitor MDL 73945 With Long Duration of Action in Rats; Diabetes Vol. 40; 06/1991; p. 825-830			
	AER	Wisselaar et al.; Effects of N-hydroxyethyl-1-deoxynojirimycin (BAY m 1099) on the activity of neutral- and asid $\alpha$ -glucosidases in Human Fibroblasts and HepG2 Cells; Clinica Chimica Acta 182; 1989; p. 41-52			
	AFR	Yamanouchi et al.; Metabolic Effects of Proglycosyn; Archives of Biochemistry and Biophysics Vol. 294, No. 2; 05/1992; p. 609-615			
	AGR	Bischoff; Pharmacology of $\alpha$ -glucosidase inhibition; European Journal of Clinical Investigation 24, Suppl. 3; 1994; p. 3-10			
	AHR	Lebovitz; Oral Antidiabetic Agents, The Emergence of $\alpha$ -Glucosidase Inhibitors; Drugs 44, Suppl. 3; 1992; p. 21-28			
	AIR	Al-Habori et al.; The role of cell swelling in the stimulation of glycogen synthesis by insulin; Biochem. J. 282; 1992; p. 789-796			
	AJR	Allaman et al.; Protein Targeting to Glycogen mRNA Expression Is Stimulated by Noradrenaline in Mouse Cortical Astrocytes; GLIA 30; 2000; p. 382-391			
<b>MM</b>	AKR	Alemzadeh et al.; Chronic suppression of insulin by diazoxide alters the activities of key enzymes regulating hepatic gluconeogenesis in Zucker rats; European Journal of Endocrinology 146; 2002; p. 871-879			

Examiner <b>M. Marich</b>	Date Considered: <b>4/25/07</b>
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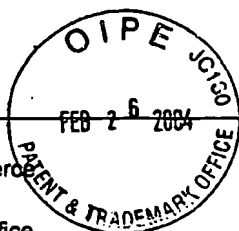
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Filing Date: October 29, 2003 <span style="float: right;">1637</span>
Examiner: to be assigned      Art Unit: to be assigned

Date: February 13, 2004      Page 3 of 13

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Examiner's			Abstract		Readily Available		
Initials*			Enclosed	No	Enclosed	No	
	ALR	Arai et al.; N-Methyl-1-Deoxynojirimycin (MOR-14), an $\alpha$ -Glucosidase Inhibitor, Markedly Reduced Infarct Size in Rabbit Hearts; Circulation; 04/1998; p. 1290-1297					
	AMR	Chishti et al.; Ultrastructural Alterations Produced in Cockerels after Mercuric Chloride Toxicity and Subsequent Interaction with an Organophosphate Insecticide; Archives of Environmental Contamination and Toxicology 22; 1992; p. 445-451					
	ANR	Baek et al.; Acarviosine-simmondsin, a Novel Compound Obtained from Acarviosine-glucose and Simmondsin by <i>Thermus</i> Maltogenic Amylase and Its <i>in vivo</i> Effect on Food Intake and Hyperglycemia; Biosci. Biotechnol. Biochem., 37 (3); 2003; p. 532-539					
	AOR	Balboa et al.; Inhibition of some hepatic lysosomal glycosidases by ethanolamines and phenyl 6-deoxy-6-(morpholin-4-yl)- $\beta$ -D-glucopyranoside; Carbohydrate Research 317; 1999; p.100-109					
	APR	Bax et al; The Structure of Phosphorylated GSK-3 $\beta$ Complexed with a Peptide, FRATide, that Inhibits $\beta$ -Catenin Phosphorylation; Structure Vol. 9; 12/2001; p. 1143-1152					
	AQR	Beckerbauer et al.; FR900482 class of anti-tumor drugs cross-links oncoprotein HMG I/Y to DNA in vivo; Chemistry & Biology Vol. 7, No. 10; 2000; p. 805-812					
	ARR	Bergans et al.; Molecular Mode of Inhibition of Glycogenolysis in Rat Liver by the Dihydropyridine Derivative, BAY R3401; Diabetes Vol. 49; 09/2000; p.1419-1426					
	ASR	Berger et al.; A High-Capacity Assay for Activators of Glucose Incorporation into Glycogen in L6 Muscle Cells; Analytical Biochemistry 261; 1998; p. 159-163					
	ATR	Black; Influence of hormones on glycogen and glucose metabolism in embryonic chick intestine; Am. J. Physiol. 254 (Gastrointest. Liver Physiol. 17); 1988; p. G65-G73					
	AUR	Board; N-Acetyl- $\beta$ -D-glucopyranosylamine 6-phosphate is a specific inhibitor of glycogen-bound protein phosphatase 1; Biochem. J. 328; 1997; p. 695-700					

Examiner 	Date Considered: <span style="float: right;">4/25/07</span>
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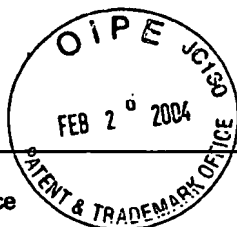
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OTHER (Including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.)			English Abstract		Translation Readily Available	
Examiner's Initials*			Enclosed	No	Enclosed	No
	AVR	Bosch et al.; Epidermal growth factor mimics insulin effects in rat hepatocytes; Biochem. J. 239, 1986; p. 523-530				
	AWR	Braun et al.; Mechanizm-based Inhibition of Yeast $\alpha$ -Glucosidase and Human Pancreatic $\alpha$ -Amylase by a New Class of Inhibitors; The Journal of Biological Chemistry Vol. 270, No. 45; 11/1995; p. 26778-26781				
	AXR	Breton et al.; The Natural Product Hymenialdisine Inhibits Interleukin-8 Production in U937 Cells by Inhibition of Nuclear Factor- $\kappa$ B; The Journal of Pharmacology and Experimental Therapeutics Vol. 282, No. 1; 1997; p. 459-466				
	AYR	Carmichael et al.; Glycogen Synthase Kinase-3 $\beta$ Inhibitors Prevent Cellular Polyglutamine Toxicity Caused by the Huntington's Disease Mutation; The Journal of Biological Chemistry Vol. 277, No. 37; 09/2002; p. 33791-33798				
	AZR	Chambers et al.; Nojirimycin-A Potent Inhibitor of Purified Lysosomal Alpha-Glucosidase from Human Liver; Biochemical and Biophysical Research Communications Vol. 107, No. 4; 08/1982; p. 1490-1496				
	BAR	Cross et al.; Inhibition of glycogen synthase kinase-3 by insulin mediated by protein kinase B; Nature Vol. 378; 12/1995; p. 785-789				
	BBR	Cross et al.; Selective small-molecule inhibitors of glycogen synthase kinase-3 activity protect primary neurones from death; Journal of Neurochemistry 77; 2001; p. 94-102				
	BCR	Cull et al.; Screening for receptor ligands using large libraries of peptides linked to the C terminus of the <i>lac</i> repressor; Proc. Natl. Acad. Sci. USA Vol. 89, Biochemistry; 03/1992; p. 1865-1869				
	BDR	Cwirla et al.; Peptides on phage: A vast library of peptides for identifying ligands; Proc. Natl. Acad. Sci. USA Vol. 87, Biochemistry; 08/1990; p. 6378-6382				
	BER	Dajani et al.; Crystal Structure of Glycogen Synthase Kinase 3 $\beta$ : Structural Basis for Phosphate-Primed Substrate Specificity and Autoinhibition; Cell Vol. 105; 06/2001; p. 721-732				
	BFR	Damiens et al.; Anti-mitotic properties of indirubin-3'-monoxime, a CDK/GSK-3 inhibitor: induction of endoreplication following prophase arrest; Oncogene 20; 2001; p. 3786-3797	✓			

Examiner <u>M. Marich</u>	Date Considered: <u>4/25/07</u>
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Date: February 13, 2004

Page

5

of

13

Examiner: to be assigned

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OTHER (Including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner's Initials*			English Abstract		Translation Readily Available	
			Enclosed	No	Enclosed	No
MM	BGR	Detaille et al.; Cellular and Molecular Mechanisms Involved in Insulin's Potentiation of Glycogen Synthase Activity by Metformin; Biochemical Pharmacology Vol. 58; 1999; p. 1475-1486				
	BHR	Dwivedi et al.; Pathology of ochratoxicosis A in young broiler chicks; Research in Veterinary Science 36; 1984; p. 92-103				
	BIR	DeWitt et al.; "Diversomers": An approach to nonpeptide, nonoligomeric chemical diversity; Proc. Natl. Acad. Sci. USA Vol. 90, Chemistry; 08/1993; p. 6909-6913				
	BJR	Donello et al.; Woodchuck Hepatitis Virus Contains a Tripartite Posttranscriptional Regulatory Element; Journal of Virology Vol. 72, No. 6; 06/1998; p. 5085-5092				
	BKR	Dong et al.; Evaluation of Isofagomine and Its Derivatives As Potent Glycosidase Inhibitors; Biochemistry 35; 1996; p. 2788-2795				
	BLR	Elbein; Inhibitors of the Biosynthesis and Processing of N-linked Oligosaccharide Chains; Ann. Rev. Biochem. 56; 1987; p. 497-534				
	BMR	Erb et al.; Recursive deconvolution of combinatorial chemical libraries; Proc. Natl. Acad. Sci. USA Vol. 91, Chemistry; 11/1994; p. 11422-11426				
	BNR	Felici et al.; Selection of Antibody Ligands from a Large Library of Oligopeptides Expressed on a Multivalent Exposition Vector; J. Mol. Biol. 222; 1991; p. 301-310				
	BOR	Field et al.; Histidines, Histamines and imidazoles as glycosidase inhibitors; Biochem. J. 274; 1991; p. 885-889				
	BPR	Fiol et al.; Formation of Protein Kinase Recognition Sites by Covalent Modification of the Substrate; The Journal of Biological Chemistry Vol. 262, No. 29; 10/1987; p. 14042-14048				
	BQR	Fiol et al.; Phosphoserine as a Recognition Determinant for Glycogen Synthase Kinase-3: Phosphorylation of a Synthetic Peptide Based on the G-Component of Protein Phosphatase-1; Archives of Biochemistry and Biophysics Vol. 267, No. 2; 12/1988; p. 797-802				
MM	BRR	Fiol et al.; Ordered Multisite Protein Phosphorylation, Analysis of Glycogen Synthase Kinase 3 Action Using Model Peptide Substrates; The Journal of Biological Chemistry Vol. 265, No. 11; 04/1990; p. 6061-6065	✓			

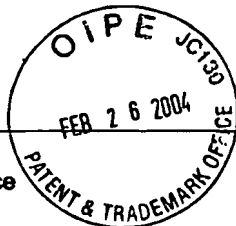
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Date: February 13, 2004

Page

6

of

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OTHER (Including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.):

English

Translation

Examiner's

Abstract

Readily  
Available

Initials\*

Enclosed

No

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No

MM

BSR

Firsov; Comparative Study of Mechanism of Action of Glucosidase from Bovine Liver and Exogluconase from *Aspergillus awamori*; 1979; p. 1757-1766

BTR

Flamm et al.; Inulin and Oligofructose as Dietary Fiber: A Review of the Evidence; Critical Reviews in Food Science and Nutrition, 41(5); 2001; p. 353-362

BUR

Flåøyen et al.; Glycogen Accumulation and Histological Changes in the Livers of Lambs with Alveld and Experimental Sporidesmin Intoxication; Veterinary Research Communications, 15; 1991; p. 443-453

BVR

Flückiger-Isler et al.; Stimulation of rat liver glycogen synthesis by the adenosine kinase inhibitor 5-iodotubercidin; Biochem J. 292; 1993; p. 85-91

BWR

Fodor et al.; Multiplexed biochemical assays with biological chips; Nature Vol. 364; 08/1993; p. 555-556

BXR

Forlenza et al.; Muscarinic agonists reduce tau phosphorylation in non-neuronal cells via GSK-3 $\beta$  inhibition and in neurons; Journal of Neural Transmission 107; 2000; p. 1201-1212

BYR

Fosgerau et al.; Kinetic and Functional Characterization of 1,4-Dideoxy-1,4-imino-D-arabinitol: A Potent Inhibitor of Glycogen Phosphorylase with Anti-hyperglycemic Effect in ob/ob Mice; Archives of Biochemistry and Biophysics Vol. 380, No. 2; 08/2000; p. 274-284

BZR

Gallop et al.; Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries; Journal of Medical Chemistry Vol. 37, No. 9; 04/1994; p. 1233-1251

CAR

Gergely et al.; Effect of fructose 1-phosphate on the activation of liver glycogen synthase; Biochem. J. 232, 1985; p. 133-137

CBR

Göke et al.; Voglibose (AO-128) Is an Efficient  $\alpha$ -Glucosidase Inhibitor and Mobilizes the Endogenous GLP-1 Reserve; Digestion 56; 1995; p. 493-501

CCR

Halvorson et al.; The Purification and Properties of an  $\alpha$ -Glucosidase of *Saccharomyces Italicus* Y1225; Biochimica et Biophysica Acta Vol. 30; 1958; p. 28-40

MM

CDR

Hermans et al.; Human Lysosomal  $\alpha$ -Glucosidase; The Journal of Biological Chemistry Vol. 266, No. 21, 07/1991; p. 13507-13512

Examiner

M. Thammich

Date Considered:

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1433

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Page

7

of

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Examiner's Initials*			English Abstract		Translation Readily Available	
			Enclosed	No	Enclosed	No
MM	CER	Hers et al.; The protein kinase C inhibitors bisindolylmaleimide I (GF 109203x) and IX (Ro 31-8220) are potent inhibitors of glycogen synthase kinase-3 activity; FEBS Letters 460; 1999; p. 433-436				
	CFR	Hevor et al.; Biochemical and Ultrastructural Study of Glycogen in Cultured Astorocytes Submitted to the Convulsant Methionine Sulfoximine; GLIA 4; 1991; p. 64-69				
	CGR	Fujita et al; Efficacy and safety of Touch Extract, an $\alpha$ -glucosidase inhibitor derived from fermented soybeans, in non-insulin-dependent diabetic mellitus; The Journal of Nutritional Biochemistry 12; 2001; p. 351-356				
	CHR	Hoover et al.; Indole-2-carboxamide Inhibitors of Human Liver Glycogen Phosphorylase; Journal of Medical Chemistry Vol. 41, No. 16; 1998; p. 2934-2938				
	CIR	Ikeda et al.; Homonojirimycin analogues and their glucosides from <i>Lobelia sessilifolia</i> and <i>Adenophora</i> spp. (Campanulaceae); Carbohydrate Research 323; 2000; p.73-80				
	CJR	Houghten et al.; The Use of Syunthetic Peptide Combinatorial Libraries for the Identification of Bioactive Peptides; BioTechniques Vol. 13, No. 3; 1992; p. 412-421				
	CKR	Ilouz et al.; Inhibition of glycogen synthase kinase-3 $\beta$ by bivalent zinc ions: insight into the insulin-mimetic action of zinc; Biochemical and Biophysical Research Communications 295; 2002; p. 102-106				
	CLR	Itinose et al; N-Acetylcysteine Stimulates Hepatic Glycogen Deposition in the Rat; Research Commucations in Chemical Pthology and Pharmacology Vol. 83, No. 1; 01/1994; p. 87-92				
	CMR	Kaiser et al.; The Cyclin-Dependent Kinase (CDK) Inhibitor Flavopiridol Inhibits Glycogen Phosphorylase; Archives of Biochemistry and Biophysics Vol. 386, No. 2; 02/2001; p. 179-187				
	CNR	Kato-Weinstein et al; Effects of dichloroacetate on glycogen metabolism in B6C3F1 mice; Toxicology 130; 1998; p. 141-154				
MM	COR	Kay et al.; Evidence for gene transfer and expression of factor IX in haemophilia B patients treated with an AAV vector; Nature Genetics Vol. 24; 03/2000; p. 257-261				

Examiner

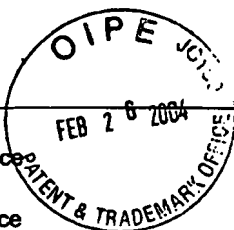
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Page

8

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English

Abstract

Translation

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Enclosed

No

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WMM

CPR

Kennerdell et al.; Use of dsRNA-Mediated Genetic Interference to Demonstrate that *frizzled* and *frizzled 2* Act in the Wingless Pathway; Cell Vol. 95; 12/1998; p. 1017-1026

CQR

Kim et al.; Comparative Study of the Inhibition of  $\alpha$ -Glucosidase,  $\alpha$ -Amylase, and Cyclomaltodextrin Glucanotransferase by Acarbose, Isoacarbose, and Acarviosine-Glucose; Archives of Biochemistry and Biophysics Vol. 371, No. 2; 11/1999; p. 277-283

CRR

Klein et al.; A molecular mechanism for the effect of lithium on development; Proc. Natl. Acad. Sci. USA Vol. 93, Developmental Biology; 08/1996; p. 8455-8459

CSR

Krasikov et al.;  $\alpha$ -Glucosidases; Biochemistry (Moscow) Vol. 66, No. 3; 2001; p. 267-281

CTR

Kruger et al.; 90-Day Oral Toxicity Study of D-Tagatose in Rats; Regulatory Toxicology and Pharmacology 29; 1999; p. S1-S10

CUR

Kwon et al.; Cyclo(Dehydroala-L-Leu), an  $\alpha$ -Glucosidase Inhibitor from *Penicillium* sp. F70614; The Journal of Antibiotics Vol. 53, No. 9; 09/2000; p. 954-958

CVR

Laloux et al.; On the mechanism by which glucocorticoids cause the activation of glycogen synthase in mouse and rat livers; Eur. J. Biochem. 136; 1983; p. 175-181

CWR

Lam et al.; A new type of synthetic peptide library for identifying ligand-binding activity; Nature Vol. 354; 11/1991; p. 82-84

CXR

Latsis et al.; Diverse effects of two allosteric inhibitors on the phosphorylation state of glycogen phosphorylase in hepatocytes; Biochem. J. 368; 2002; p. 309-316

CYR

Leclerc et al.; Indirubins Inhibit Glycogen Synthase Kinase-3 $\beta$  and CDK5/P25, Two Protein Kinases Involved in Abnormal Tau Phosphorylation in Alzheimer's Disease; The Journal of Biological Chemistry Vol. 276, No. 1; 01/2001; p. 251-260

WMM

CZR

Legler et al.; N<sup>1</sup>-Alkyl-D-gluconamides: Are they 'perfect' mimics of the first transition state of glucosidase action?; Carbohydrate Research 292; 1996; p. 103-115

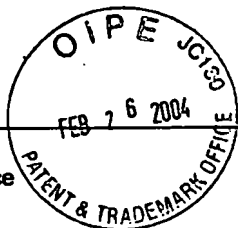
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M. Tharisch

Date Considered:

4/25/07

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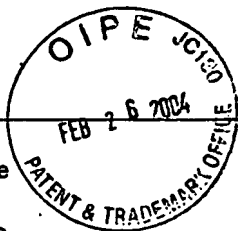
Applicant: Pownall, et al.
Appln. No.: 10/697,700
Filing Date: October 29, 2003
Examiner: to be assigned
Art Unit: to be assigned

Date: February 13, 2004 Page 9 of 13

OTHER (Including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.)			English Abstract		Translation Readily Available	
Examiner's Initials*			Enclosed	No	Enclosed	No
	DAR	Lembcke et al.; Lysosomal storage of glycogen as a sequel of $\alpha$ -glucosidase inhibition by the absorbed deoxynojirimycin derivative emiglitate (BAYo1248); Research in Experimental Medicine 191; 1991; p. 389-404	/			
	DBR	Lingohr et al.; Dichloroacetate Stimulates Glycogen Accumulation in Primary Hepatocytes through an Insulin-Independent Mechanism; Toxicological Sciences 68; 2002; p. 508-515				
	DCR	Lochhead et al.; Inhibition of GSK-3 Selectively Reduces Glucose-6-Phosphatase and Phosphoenolpyruvate Carboxykinase Gene Expression; Diabetes 50; 2001; p. 937-946				
	DDR	Lindgren et al.; NN 42-1007 is a novel, potent inhibitor of hepatic glycogen phosphorylase, and of hepatocyte glycogenolysis; Diabetes Abstract Book 56 <sup>th</sup> Annual Meeting and Scientific Sessions; 05/1996; p. 142A:521				
	DER	Martinez et al.; Glycogen Synthase Kinase 3 (GSK-3) Inhibitors as New Promising Drugs for Diabetes, Neurodegeneration, Cancer, and Inflammation; Medicinal Research Reviews, Vol. 22, No. 4; 2002; p. 373-384				
	DFR	Martinez et al.; First Non-ATP Competitive Glycogen Synthase Kinase 3 $\beta$ (GSK-3 $\beta$ ) Inhibitors: Thiadiazolidinones (TDZD) as Potential Drugs for the Treatment of Alzheimer's Disease; Journal of Medical Chemistry Vol. 45, No. 6; 2002; p. 1292-1299				
	DGR	Massillon et al.; Demonstration of a Glycogen/Glucose 1-Phosphate Cycle in Hepatocytes from Fasted Rats; The Journal of Biological Chemistry Vol. 270, No. 33; 08/1995; p. 19351-19356				
	DHR	Matsumoto et al.; A Novel Method for the Assay of $\alpha$ -Glucosidase Inhibitory Activity Using a Multi-channel Oxygen Sensor; Analytica Sciences Vol. 18; 12/2002; p. 1315-1319				
	DIR	Matsuura et al.; $\alpha$ -Glucosidase Inhibitor from the Seeds of Balsam Pear ( <i>Momordica charantia</i> ) and the Fruit Bodies of <i>Grifola frondosa</i> ; Biosci. Biotechnol. Biochem. 66 (7); 2002; p. 1576-1578				
	DJR	Meijer et al.; Inhibition of cyclin-dependent kinases, GSK-3 $\beta$ and CK1 by hymenialdisine, a marine sponge constituent; Chemistry & Biology Vol. 7, No. 1; 2000; p. 51-63				

Examiner	Date Considered: 4/25/07
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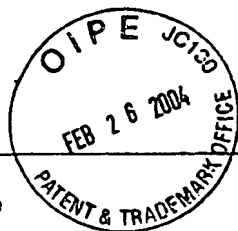
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Examiner: to be assigned
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Date: February 13, 2004 Page 10 of 13

OTHER (Including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.)				English		Translation	
Examiner's				Abstract		Readily Available	
Initials*				Enclosed	No	Enclosed	No
mm	DKR	Metthey et al.; Aloisines, a New Family of CDK/GSK-3 Inhibitors, ASR Study, Crystal Structure in Complex with CDK2, Enzyme Selectivity, and Cellular Effects; Journal of Medical Chemistry Vol. 46, No. 2; 2003; p. 222-236					
	DLR	Mitchell et al.; Ternary Complex Crystal Structure of Glycogen Phosphorylase with the Transition State Analogue Nojirimycin Tetrazole and Phosphate in the T and R States; Biochemistry Vol. 35, No. 23; 1996; p. 7341-7355					
	DMR	Molyneux et al.; 6-Epicastanospermine, a Novel Indolizidine Alkaloid That Inhibits $\alpha$ -Glucosidase; Archives of Biochemistry and Biophysics Vol. 251; No. 2; 12/1986; p. 450-457					
	DNR	Muraoka et al.; Synthesis of a Nitrogen Analogue of Salacinol and Its $\alpha$ -Glucosidase Inhibitory Activity; Chem. Pharm. Bull. Vol. 49, No. 11; 11/2001; p. 1503-1505					
	DOR	Nakai et al.; Adeno-Associated Viral Vector-Mediated Gene Transfer of Human Blood Coagulation Factor IX Into Mouse Liver; Blood, Vol. 91, No. 12; 06/1998; p. 4600-4607					
	DPR	Nakao et al.; Callyspongynic Acid, a Polyacetylenic Acid Which Inhibits $\alpha$ -Glucosidase, from the Marine Sponge <i>Callyspongia truncata</i> ; Journal of Natural Products Vol. 65, No. 6; 2002; p. 922-924					
	DQR	Oikonomakos et al.; The design of potential antidiabetic drugs: experimental investigation of a number of $\beta$ -D-glucose analogue inhibitors of glycogen phosphorylase; European Journal of Drug Metabolism and Pharmacokinetics, No. 3; 1994; p. 185-192					
	DRR	Oikonomakos et al.; Binding of <i>N</i> -acetyl- <i>N'</i> - $\beta$ -D-glucopyranosyl urea and <i>N</i> -benzoyl- <i>N'</i> - $\beta$ -D-glucopyranosyl urea to glycogen phosphorylase <i>b</i> ; Eur. J. Biochem. 269; 2002; p. 1684-1696					
	DSR	Oikonomakos et al.; Flavopiridol Inhibits Glycogen Phosphorylase by Binding at the Inhibitor Site; The Journal of Biological Chemistry Vol. 275, No. 44; 11/2000; p. 34566-34573					
mm	DTR	Oikonomakos et al.; Kinetic and Crystallographic Studies of Glucopyranosylidene Spirothiohydantoin Binding to Glycogen Phosphorylase B; Bioorganic & Medicinal Chemistry 10; 2002; p. 261-268					

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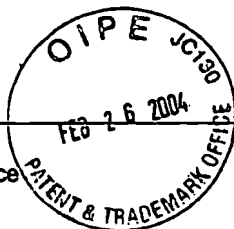
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Date: February 13, 2004 Page 11 of 13

OTHER (Including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.)		English Abstract		Translation Readily Available	
Examiner's Initials*		Enclosed	No	Enclosed	No
MM	DUR Oikonomakos et al.; Allosteric inhibition of glycogen phosphorylase a by the potential antidiabetic drug 3-isopropyl 4-(2-chlorophenyl)-1,4-dihydro-1-ethyl-2-methyl-pyridine-3,5,6-tricarboxylate; Protein Science 8; 1999; p. 1930-1945				
	DVR Okazaki et al.; A repeated 28-day oral dose toxicity study of genistein in rats, based on the 'Enhanced OECD Test Guideline 407' for screening endocrine-disrupting chemicals; Arch Toxicol 76; 2002; p. 553-559				
	DWR Papandréou et al.; The $\alpha$ -Glucosidase Inhibitor 1-Deoxynojirimycin Blocks Human Immunodeficiency Virus Envelope Glycoprotein-Mediated Membrane Fusion at the CXCR4 Binding Step; Molecular Pharmacology, Vol. 61, No. 1; 2002; p. 186-193				
	DXR Pinotsis et al.; The binding of $\beta$ - and $\gamma$ -cyclodextrins to glycogen phosphorylase b: Kinetic and crystallographic studies; Protein Science Vol. 12; 2003; p. 1914-1924				
	DYR Rhinehart et al.; Quantitative Relationship of Lysosomal Glycogen Accumulation to Lysosomal $\alpha$ -Glucosidase Inhibition in Castanospermine-Treated Rats; Biochemical Pharmacology, Vol. 41, No. 2; 1991; p. 223-228				
	DZR Rusbridge et al.; 3,4-Dichloroisocoumarin, a serine protease inhibitor, inactivates glycogen phosphorylase b; FEBS Letters Vol. 268, No. 1; 07/1990; p. 133-136				
	EAR Saunier et al.; Inhibition of N-linked Complex Oligosaccharide Formation by 1-Deoxynojirimycin, an inhibitor of Processing Glucosidases; The journal of Biological Chemistry Vol. 257, No. 23; 12/1982; p. 14155-14161				
	EBR Rathi et al.; The Effect of <i>Momordica charantia</i> and <i>Mucuna pruriens</i> in Experimental Diabetes and their Effect on Key Metabolic Enzymes Involved in Carbohydrate Metabolism; Phytotherapy Research 16; 2002; p. 236-243				
	ECR Ring et al.; Selective Glycogen Synthase Kinase 3 Inhibitors Potentiate Insulin Activation of Glucose Transport and Utilization in Vitro and in Vivo; Diabetes, Vol. 52; 03/2003; p. 588-595				
	EDR Roden et al.; Application of NMR Spectroscopy to Study Muscle Glycogen Metabolism in Man; Annu. Rev. Med. 50; 1999; p. 277-290				
MM	EER Rousset et al.; Presence and Cell Growth-related Variations of Glycogen in Human colorectal Adenocarcinoma Cell Lines in Culture; Cancer Research 39; 02/1979; p. 531-534				

Examiner: M. Tharvich	Date Considered: 4/25/07
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OTHER (Including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.)			English Abstract		Translation Readily Available	
Examiner's Initials*			Enclosed	No	Enclosed	No
MM	EFR	Ryves et al.; Glycogen Synthase Kinase-3 Inhibition by Lithium and Beryllium Suggests the Presence of Two Magnesium Binding Sites; Biochemical and Biophysical Research Communications Vol. 290, No. 3; 2002; p. 967-972				
	EGR	Ryves et al.; Lithium Inhibits Glycogen Synthase Kinase-3 by Competition for Magnesium; Biochemical and Biophysical Research Communications Vol. 280, No. 3; 2001; p. 720-725				
	EHR	San Juan Serrano et al.; Caffeine Inhibition of Glycogen Phosphorylase from Mytilus galloprovincialis Mantle Tissue; Int. J. Biochem. Cell Biol., Vol. 27, No. 9; 1995; p. 911-916				
	EIR	Scott et al.; Searching for Peptide Ligands with an Epitope Library; Science, Vol. 249; 07/1990; p. 386-390				
	EJR	Shiota et al.; Inhibition of glycogenolysis enhances gluconeogenic precursor uptake by the liver of conscious dogs; Am. J. Physiol. 273 (Endocrinol. Metab. 36); 1997; p. E868-E879				
	EKR	Smith et al.; 3-Anilono-4-arylmaleimides: Potent and Selective Inhibitors of Glycogen Synthase Kinase-3 (GSK-3); Bioorganic & Medicinal Chemistry Letters 11; 2001; p. 635-639				
	ELR	Sou et al.; $\alpha$ -Glucosidase Inhibitors with a 4,5,6,7-Tetrachlorophthalimide Skeleton Pendanted with a Cycloalkyl or Dicarba-closo-dodecaborane Group; Chem. Pharm. Bull. Vol. 49, No. 6; 06/2001; p. 791-793				
	EMR	Sugita et al.; Inducible nitric oxide synthase plays a role in LPS-induced hyperglycemia and insulin resistance; Am. J. Physiol. Endocrinol. Metab. 282; 2002; p. E386-E394				
	ENR	Takeuchi et al.; Inhibitory Effect of Pseudo-Aminosugars on Oligosaccharide Glucosidases I and II and on Lysosomal $\alpha$ -Glucosidase from Rat Liver; J. Biochem. 108; 1990; p. 42-46				
	EOR	Tsujii et al.; Nectrisine Is a Potent Inhibitor of $\alpha$ -Glucosidases, Demonstrating Activities Similarly at Enzyme and Cellular Levels; Biochemical and Biophysical Research Communications Vol. 220, No. 2; 1996; p. 459-466				
MM	EPR	ter Haar et al.; Structure of GSK3 $\beta$ reveals a primed phosphorylation mechanism; Nature Structural Biology, Vol. 8, no. 7; 07/2001; p. 593-596				

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Appln. No.: 10/697,700

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Page

13

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13

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Examiner's Initials*			English		Translation	
			Abstract	Readily Available		
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MM	EQR	Thomas et al.; A GSK3-binding peptide from FRAT1 selectively inhibits the GSK 3-catalysed phosphorylation of Axin and $\beta$ -catenin; FEBS Letters 458; 1999; p. 247-251				
	ERR	Tropea et al.; Australine, a Pyrrolizidine Alkaloid That Inhibits Amyloglucosidase and Glycoprotein Processing; Biochemistry Vol. 28, No. 5; 1989; p. 2027-2034				
	ESR	Van Schaftingen et al.; Effect of proglycosyn and other phenolic compounds on glycogen metabolism in isolated hepatocytes; Eur. J. Biochem. 218; 1993; p. 745-751				
	ETR	Vivinus et al.; An element within the 5' untranslated region of human <i>Hsp70</i> mRNA which acts as a general enhancer of mRNA translation; Eur. J. Biochem. 268; 2001; p. 1908-1917				
	EUR	Waagepetersen et al.; The effects of isofagomine, a potent glycogen phosphorylase inhibitor, on glycogen metabolism in cultured mouse cortical astrocytes; Neurochemistry International 36; 2000; p. 435-440				
	EVR	Watson et al.; Design of Inhibitors of Glycogen Phosphorylase: A Study of $\alpha$ - and $\beta$ -C-Glucosides and 1-Thio- $\beta$ -D-glucose Compounds; Biochemistry Vol. 33, No. 19; 1994; p. 5745-5758				
	EWR	Wang et al.; Cytotoxic effects of cantharidin on the growth of normal and carcinoma cells; Toxicology 147; 2000; p. 77-87				
	EXR	Wigler et al.; Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells; Cell Vol. 11; 05/1977; p. 223-232				
	EYR	Withers; Pyridoxal(5')diphospho(1)- $\alpha$ -D-glucose The Journal of Biological Chemistry, Vol. 260, No. 2; 01/1985; p. 841-845				
	EZR	Yoshikawa et al.; Absolute Stereostructure of Potent $\alpha$ -Glucosidase Inhibitor, Salacinol, with Unique Thiosugar Sulfonium Sulfate Inner Salt Structure from <i>Salacia reticulata</i> ; Bioorganic & Medicinal Chemistry, 10; 2002; p. 1547-1554				
	FAR	Yan et al.; The Human Asid $\alpha$ -Glucosidase Gene Is a Novel Target of the Notch-1/Hes-1 Signaling Pathway; The Journal of Biological Chiemistry, Vol. 227, No. 33; 08/2002; p. 29760-29764				
MM	FBR	Zuckermann et al.; Discovery of Nanomolar Ligands for 7-Transmembrane G-Protein-Coupled Receptors from a Diverse <i>N</i> -(Substituted)glycine Peptoid Library; Journal of Medical Chemistry No. 37, No. 17; 1994; p. 2678-2685				

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